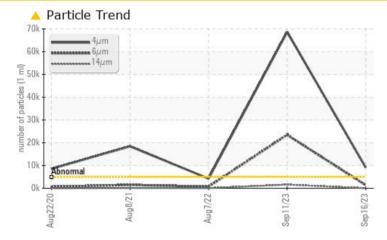
PROBLEM SUMMARY

Sample Rating Trend ISO

Area [2979434] Machine Id 77AY08 Component Hydraulic System Fluid KLUBER KLUBEROIL 4 UH1-68 N (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TES	ST RESULTS				
Sample Status			ATTENTION	SEVERE	SEVERE
Particles >4µm	ASTM D7647	>5000	<u> </u>	68682	4236
Particles >6µm	ASTM D7647	>1300	<u> </u>	23456	698
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>	• 23/22/18	19/17/13

Customer Id: TALCLA Sample No.: WC0857837 Lab Number: 05959080 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component.			
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.			

HISTORICAL DIAGNOSIS



11 Sep 2023 Diag: Wes Davis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



view report

07 Aug 2022 Diag: Don Baldridge



We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition.All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

08 Aug 2021 Diag: Doug Bogart



The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



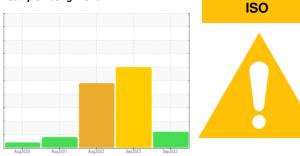




Area [2979434] 77AY08 Component

OIL ANALYSIS REPORT

Sample Rating Trend



Hydraulic System KLUBER KLUBEROIL 4 UH1-68 N (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

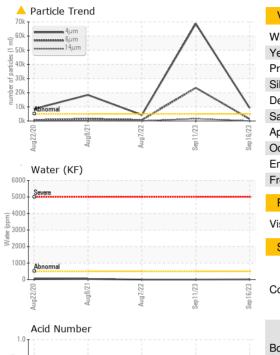
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0857837	WC0765668	WC0688436
Sample Date		Client Info		16 Sep 2023	11 Sep 2023	07 Aug 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	<1	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	<1	0
Tin	ppm	ASTM D5185m	>20	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	110	method	limit/base	current	history1	history2
			in in base			
Boron	ppm	ASTM D5185m		0	0	3
Barium	ppm	ASTM D5185m		-		0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		<1	0	÷
Phosphorus	ppm	ASTM D5185m		640	636	614
Zinc	ppm	ASTM D5185m		1	0	0
Sulfur	ppm	ASTM D5185m		721	829	781
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	14	10	123
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304		0.001	0.00	0.00
Water	% ppm	ASTM D6304 ASTM D6304	>0.05			0.00
Water ppm Water FLUID CLEANLIN	ppm		>0.05	0.001	0.00	
Water ppm Water FLUID CLEANLIN	ppm	ASTM D6304	>0.05 >500	0.001 9.2	0.00 0.00	0.00
Water ppm Water FLUID CLEANLIN Particles >4µm	ppm	ASTM D6304 method	>0.05 >500 limit/base >5000	0.001 9.2 current	0.00 0.00 history1	0.00 history2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm	ASTM D6304 method ASTM D7647	>0.05 >500 limit/base >5000	0.001 9.2 current	0.00 0.00 history1 68682	0.00 history2 4236
Water ppm Water FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm	ppm	ASTM D6304 method ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160	0.001 9.2 current ▲ 9152 ▲ 1388	0.00 0.00 history1 68682 23456	0.00 history2 4236 698
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm	ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160	0.001 9.2 <u>current</u> ▲ 9152 ▲ 1388 33	0.00 0.00 history1 68682 23456 1605	0.00 history2 4236 698 53
Water ppm Water	ppm	ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160 >40 >10	0.001 9.2 <u>current</u> ▲ 9152 ▲ 1388 33 6	0.00 0.00 history1 68682 23456 1605 142	0.00 history2 4236 698 53 13
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm	ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160 >40 >10	0.001 9.2 <u>current</u> ▲ 9152 ▲ 1388 33 6 1	0.00 0.00 history1 ● 68682 ● 23456 ● 1605 ▲ 142 2	0.00 history2 4236 698 53 13 1
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ESS	ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.05 >500 limit/base >5000 >1300 >160 >40 >10 >3	0.001 9.2 current ▲ 9152 ▲ 1388 33 6 1 1 1	0.00 0.00 history1 ● 68682 ● 23456 ● 1605 ▲ 142 2 0	0.00 history2 4236 698 53 13 13 1 0

Report Id: TALCLA [WUSCAR] 05959080 (Generated: 09/29/2023 07:28:19) Rev: 1

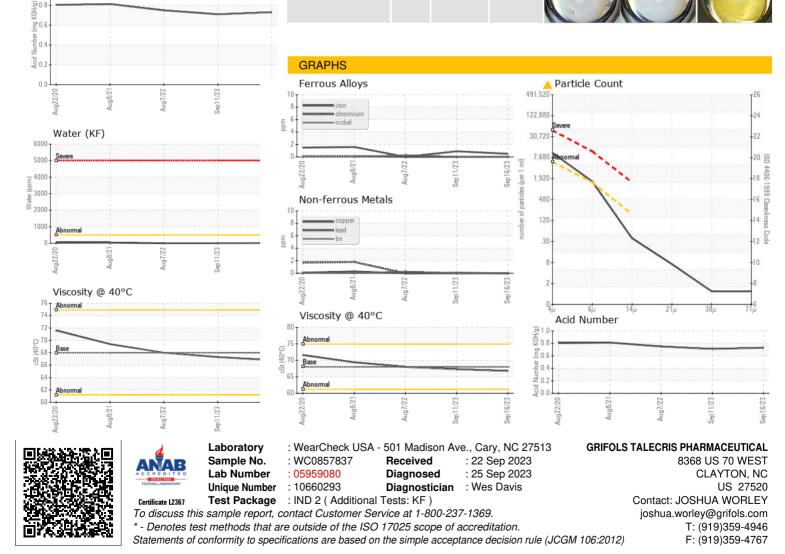
Contact/Location: JOSHUA WORLEY - TALCLA



OIL ANALYSIS REPORT







Contact/Location: JOSHUA WORLEY - TALCLA